

FIG. 1

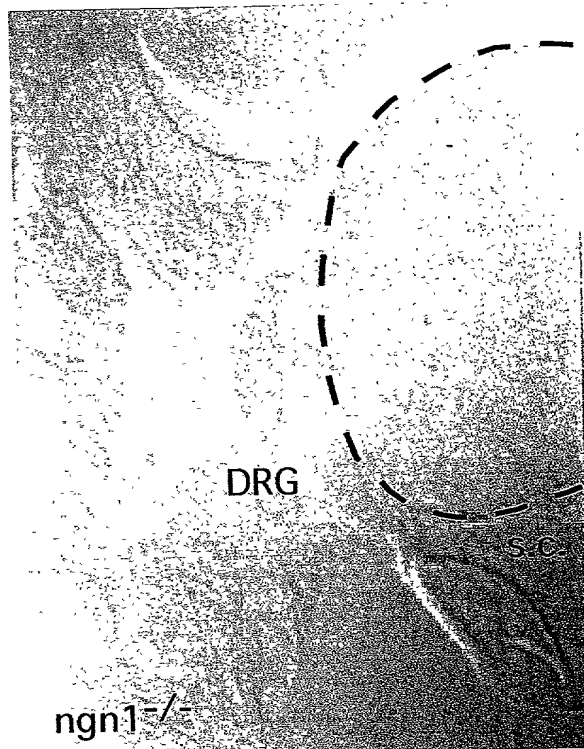
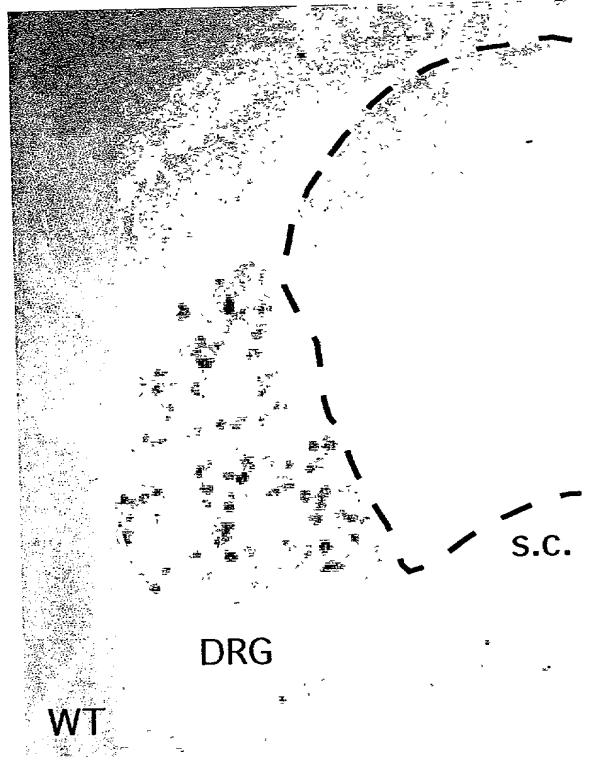
LCPIWYHCHRP EHTSTVMCAVIWVLSLLICILNSYFCGFLNTQYKNENGCLALNFFTAAYLMFLFVVLCLSSSLALVA
LCPTWYHCHRPVHTSTVMCAAIWVLSLLICILNSYFCGVLHTRYDNDNGCLATNIFTASYMIFLLVVLCLSSSLALLA
LCPIWYHCHRRPEHTSTVMCAVIWVLSLLICILDGYFCGYLDNHYFNYSVCQAWDIFIGAYPMFLFVVLCLSTLALLA
LCPIWYHCHRRPEHTSTVMCAVIWVLSLLICILNSYFCGFLNTQYKNENGCLALSFFTAAAYLMFLFVVLCLSSSLALVA
LCPTWYRCHRPVHTSTVMCAVIWVLSLLICILNSYFCAVLHTRYDNDNECLATNIFTASYMIFLLVVLCLSSSLALLA
LCPIWYRCHRP EHTSTIMCVVIWVLSLLICLLNRYFCDLFGPKYEINSVCQASEFFIRIYPIFLFVVLCSFTLTLLA
LWPIWYRCHRP THLSAVCVLLWALSLLRSILEWMLCGFLFSGA - DSAWCQTSDFITVAWLIFLCVVLGSSSLVLLI
LWPIWYRCHRRPRHLSAVCVLLWALSLLLSILEGKFCGFLFSDG - DSGWCQTDFITAAWLIFLFMVLCGSSSLALLV

mr3
 mr4
 mr5
 mr6
 mr7
 mr8
 human1
 human2

		E1	TM1	C1
mrg3		M D N T I P C G I N I T I L I P N L M I I I F G L V Q L T G N G I V F W L L G F C L H R N A F S V Y		
mrg4		M D E T L P C S I N I R I L I P K L M I I I F G L V Q L M G N A I V F W L L G F H L R K N D F S L Y		
mrg5		M N E T I P C S I D I E T L I P D L M I I I F G L V Q L T G N A I V F W L L G F R M H R T A F L V Y		
mrg8		M N E T I P C S I D I E T L I P N L M I I I F G L V Q L T G N V I L F W L L G F H L H R N A F L V Y		
mrg9			M I I I F R L V G M T G N A I V F W L L G F S L H R N A F S V Y	
mrg10		M H R S I S I R I L I T N I M I V I L G L V Q L T G D A I V F W L L L F R L R R N A F S I Y		
mrg11		M D E T S P R S I D I E S L I P N L M I I I F G L V Q L T G N A I V L W L L G F C L H R N A F L V Y		
mrg12		M D K T L L G S I D I E T L I R H L M I I I F G L V Q L T G N A I V F W L L G F H L H R N A F L V Y		
	TM2	E2	TM3	
mrg3	I L N L A L A D F F F L L G H I I D S I L L L L N V F Y P - I T F L L C F Y T I M M V L Y I A G L S			
mrg4	I L N L A L A D F L F L L S S I I A S T L F L L K V S Y L S I I F H L C F N T I M M V V Y I T G L S			
mrg5	I L N L A L A D F L F L L C H I I N S T V D L L K F T L P K G I F A F C F H T I K R V L Y I T G L S			
mrg8	I L N L A L A D F L F L L C H I I N S T M L L L K V H L P N N I L N H C F D I I M T V L Y I T G L S			
mrg9	I L N L A L A D F V F L L C H I I D S M L L L L T V F Y P N N I F S G Y F Y T I M T V P Y I A G L S			
mrg10	I L N L A L A D F L F L L C H I I A S T E H I L T F S S P N S I F I N C L Y T F R V L L Y I A G L S			
mrg11	I L N L A L A D F L F L L C H I I N S A M F L L K V P I P N G I F V Y C F Y T I K M V L Y I T G L S			
mrg12	I I N L A L A D F F Y L L C H I I N S I M F L L K V P S P N I I L D H C F Y T I M I V L Y I T G L S			
	C2	TM4		
mrg3	M L S A I S T E R C L S V L C P I W Y H C H R P E H T S T V M C A V I W V L S L L I C I L N S Y F C			
mrg4	M L S A I S T E C C L S V L C P T W Y R C H R P V H T S T V M C A V I W V L S L L I C I L N S Y F C			
mrg5	M L S A I S T E R C L S V L C P I W Y H C R R P E H T S T V M C A V I W V L S L L I C I L D G Y F C			
mrg8	M L S A I S T E R C L S V L C P I W Y R C R R P E H T S T V L C A V I W F L P L L I C I L N G Y F C			
mrg9	M L S A I S T E L C L S V L C P I W Y R C H H P E H T S T V M C A A I W V L P L L V C I L N R Y F C			
mrg10	M L S A I S I E R C L S V M C P I W Y R C H S P E H T S T V M C A M I W V L S L L I C I L Y R Y F C			
mrg11	M L S A I S T E R C L S V L C P I W Y H C R R P E H T S T V M C A V I W I F S V L I C I L K E Y F C			
mrg12	M L S A I S T E R C L S V L C P I W Y R C H R P E H T S T V M C A V I W V M S L L I S I L N G Y F C			
	E3	TM5	C3	
mrg3	G F L N T Q Y K N E N G C L A L N F F T A A Y L M F L F V V L C L S S L A L V A R L F C G T G Q I K			
mrg4	A V L H T R Y D N D N E C L A T N I F T A S Y M I F L L V V L C L S S L A L L A R L F C G A G Q M K			
mrg5	G Y L D M H Y F N Y S V C Q A W D I F I G A Y L M F L F V V L C L S T L A L L A R L F C G A R N M K			
mrg8	H F F G P K Y V I D S V C L A T N F F I R T Y P M F L F V V L C L S T L A L L A R L F C G G G K T K			
mrg9	S F L D I N Y N N D K Q C L A S N F F T R A Y L M F L F V V L C L S S M A L L A R L F C G T G Q M K			
mrg10	G F L D T K Y E D D Y G C L A M N F L T T A Y L M F L F V V L C V S S L A L L A R L F C G A G R M K			
mrg11	D F F G T K L G N Y Y V C Q A S N F F M G A Y L M F L F V V L C L S T L A L L A R L F C G A E K M K			
mrg12	N F S S P K Y V N N S V C Q A S H I F I R T Y P I F L F V L L C L S T L A L L A R L F S G A G K R K			
	TM6	E4		
mrg3	L T R L Y V T I L S I L V F L L C G L P F G I H W F L L F K I K D D F H V F D L G F Y L A S V V L			
mrg4	L T R F H V T I L L T L V F L L C G L P F V I Y C I L L F K I K D D F H V L D V N F Y L A L E V L			
mrg5	F T R L F V T I M L T V L V F L L C G L P W G I T W F L L F W I A P G V F V L D Y - - S P L L V L			
mrg8	F T R L F V T I M L T V L V F L L C G L P L G F F W F L V P W I N R D F S V L D Y I L F Q T S L V L			
mrg9	L T R L Y V T I M L T V L G F L L C G L P F V I Y Y F L L F N I K D G E C L F D F R F Y M S T H V L			
mrg10	L T R L Y V T I T L T L L V F L L C G L P C G F Y W F L L S K I K N V F T V F E F S L Y L A S V V L			
mrg11	F T R L F V T I M L T I L V F L L C G L P W G F F W F L L I W I K G G F S V L D Y R L Y L A S I V L			
mrg12	F T R L F V T I M L A I L V F L L C G L P L G F F W F L S P W I E D R F I V L D Y R L F F A S V V L			
	TM7	C4		
mrg3	T A I N S C A N P I I Y F F V G S F R H R L K H Q T L K M V L Q N A L Q D T P E T A K I M V E M S R			
mrg4	T A I N S C A N P I I Y F F V G S F R H Q L K H Q T L K M V L Q S A L Q D T P E T A E N M V E M S S			
mrg5	T A I N S C A N P I I Y F F V G S F R Q R L N K Q T L K M V L Q K A L Q D T P E T P E N M V E M S R			
mrg8	T S V N S C A N P I I Y F F V G S F R H R L K H K T L K M V L Q S A L Q D T P E T P E N M V E M S R			
mrg9	T A I N N C A N P I I Y F F E G S F R H Q L K H Q T L K M V L Q S V L Q D T P E I A E N M V E M S R			
mrg10	T A I N S C A N P I I Y F F V G S F R H R L K H Q T L K M V L Q S A L Q D T P E T P E N M V E M S R			
mrg11	T V V N S C A N P I I Y F F V G S F R H R L K H Q T L K M V L Q S A L Q D T P E T H E N M V E M S R			
mrg12	T V V N S C A N P I I Y F F V G S F R H R L K Q O T L K M F L Q R A L Q D T P E T P E N M V E M S R			
mrg3	S K S E P			
mrg4	N K A E P			
mrg5	N K A E P			
mrg8	S K A E P			
mrg9	N I P K P			
mrg10	N K A E L			
mrg11	I K A E Q			
mrg12	S K A E P			

FIG 1A

mrg3



mrg4

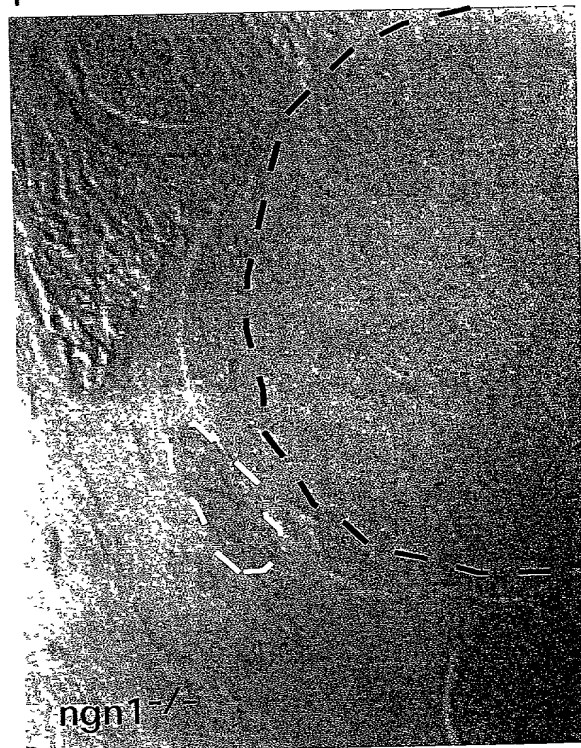
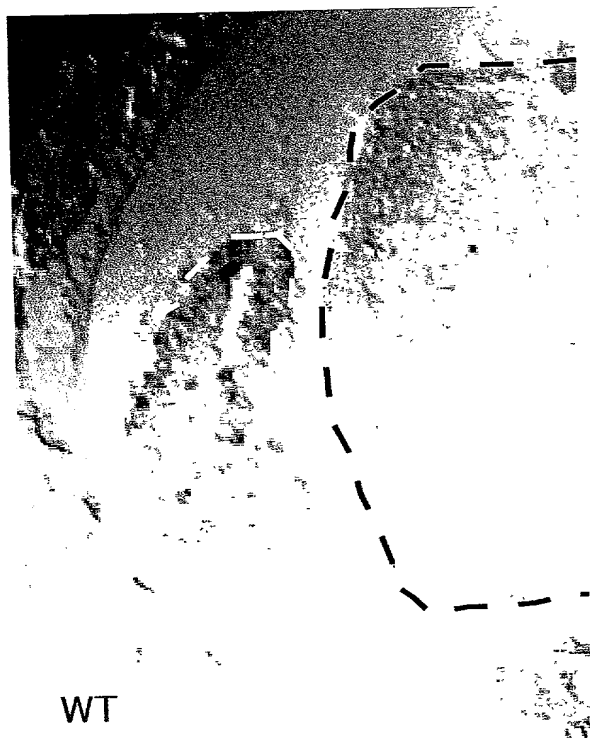
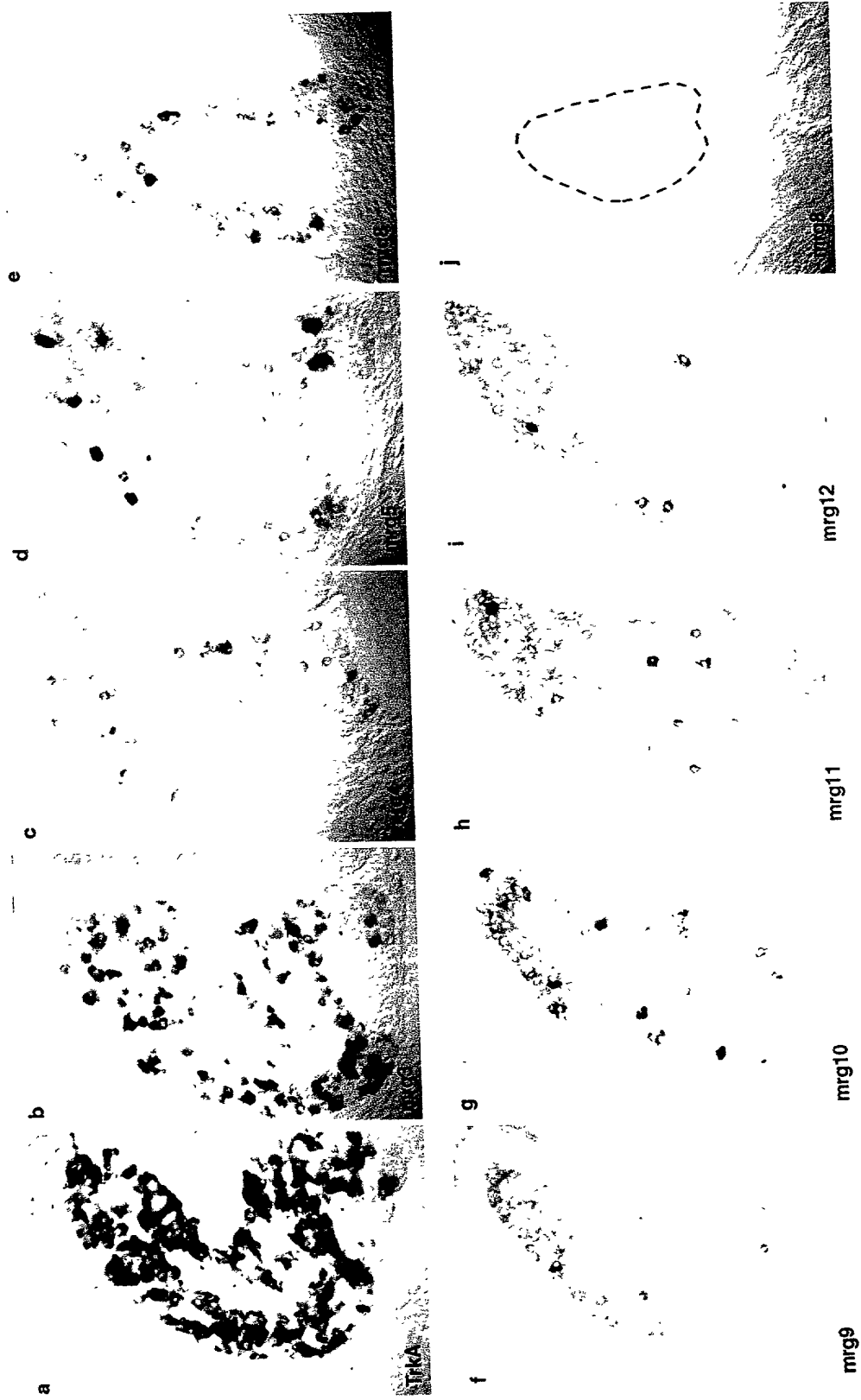


FIG 2

FIG 2A



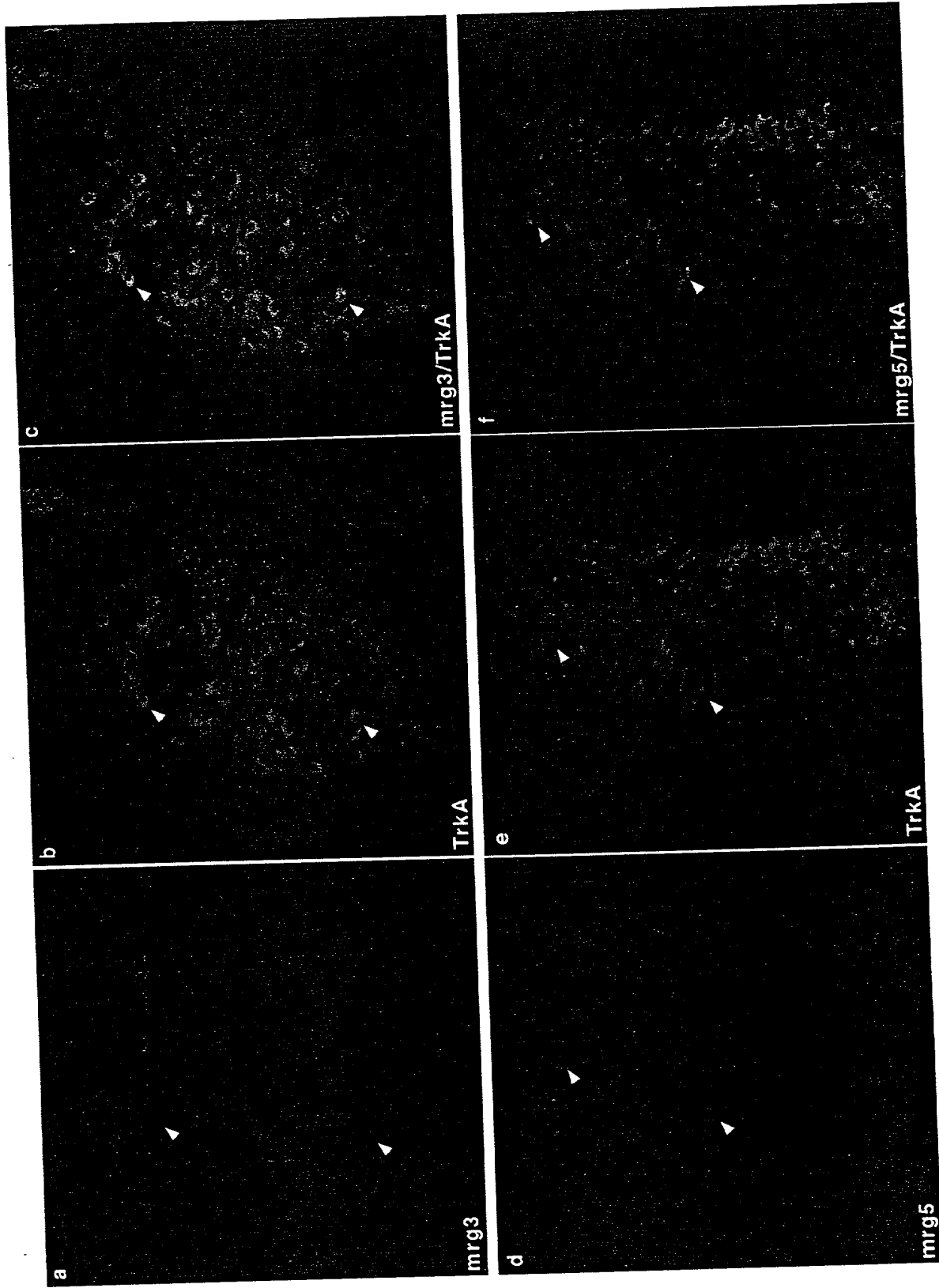


FIG 2B

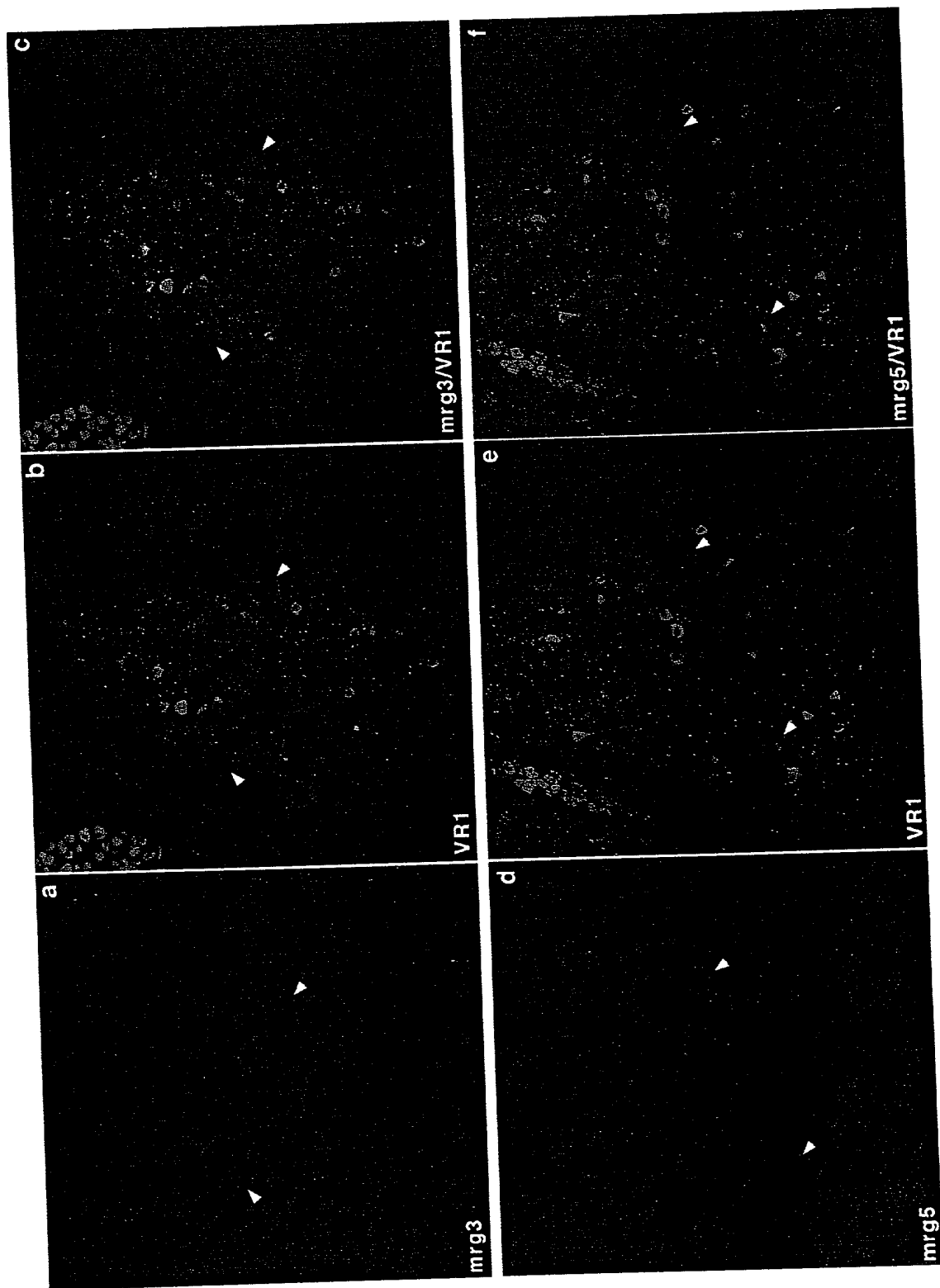


FIG 2C

FIG. 2D

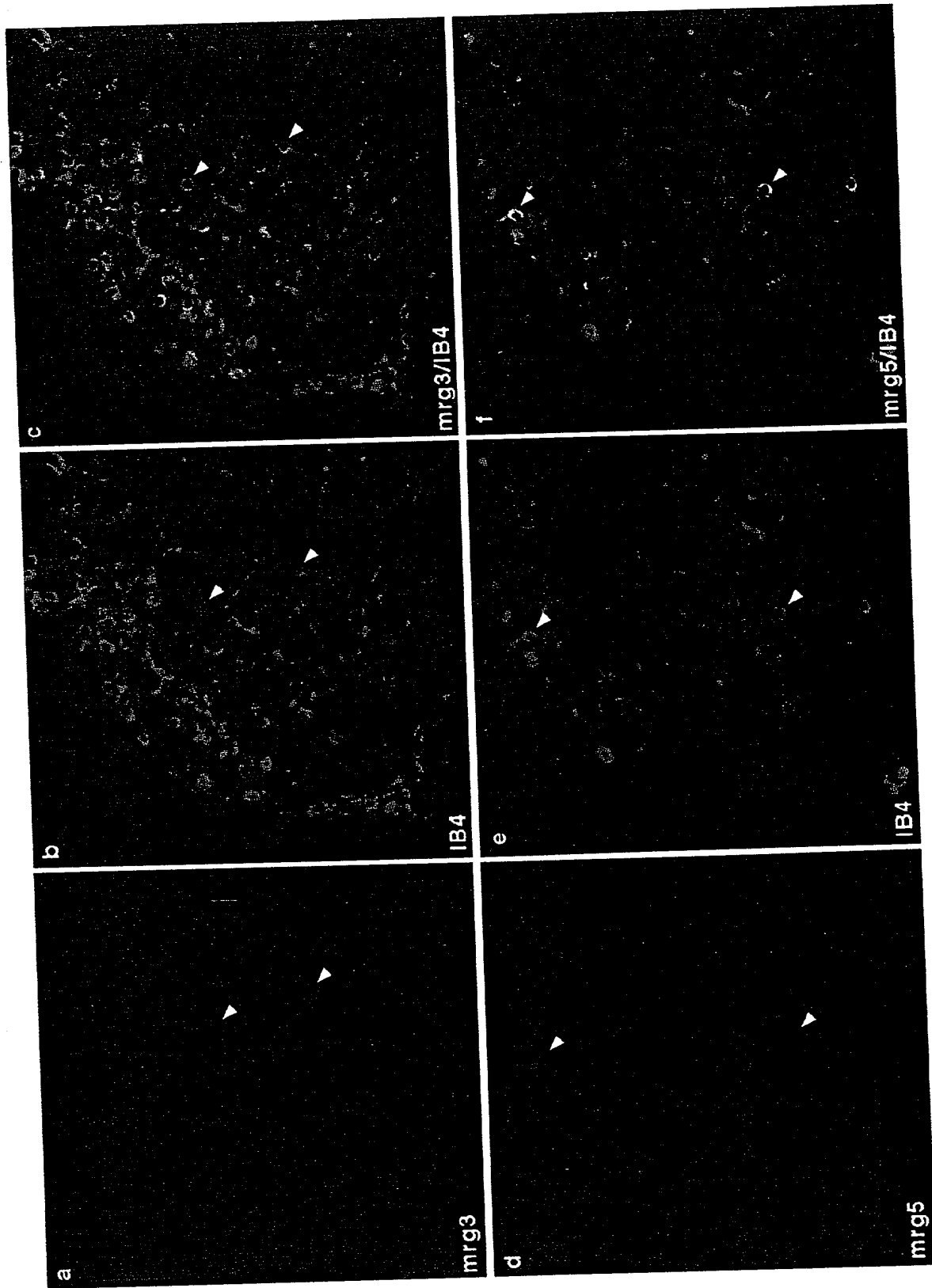


Figure 3

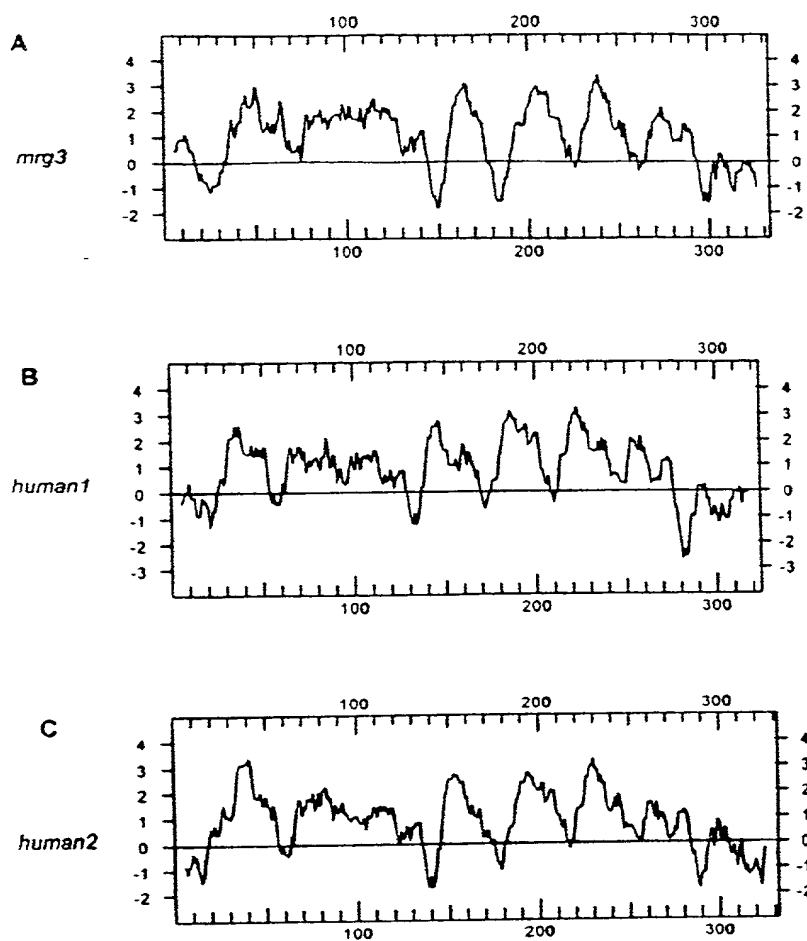
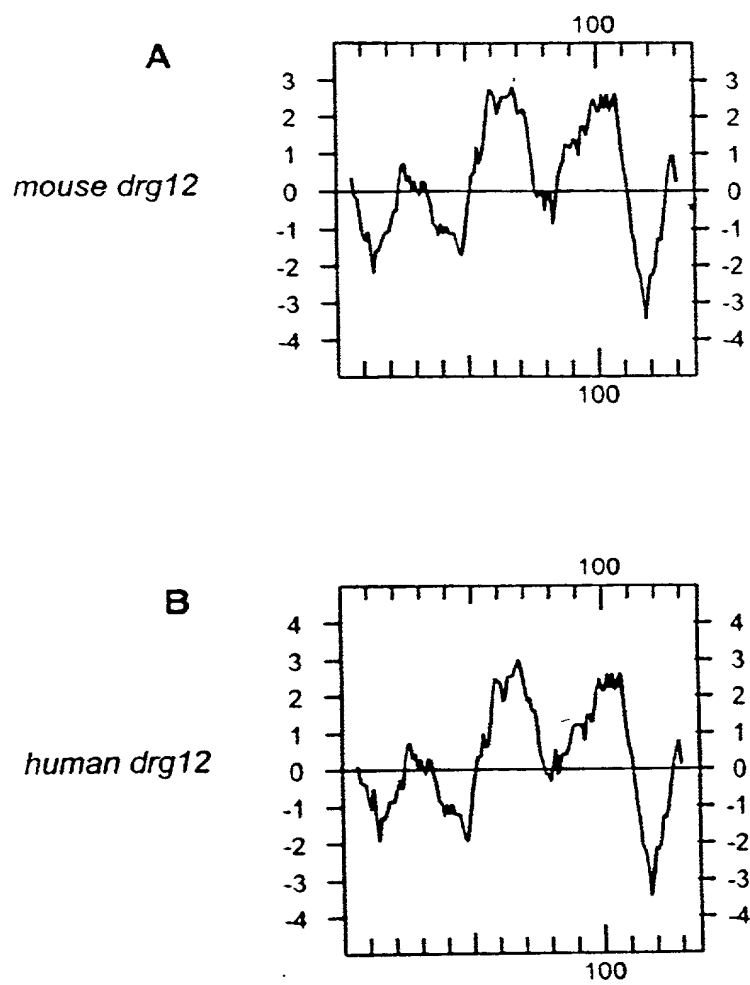
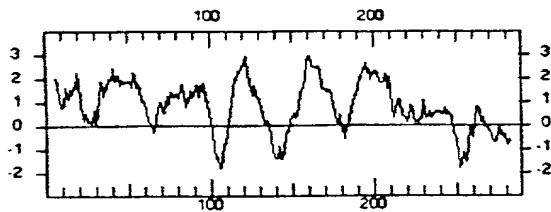
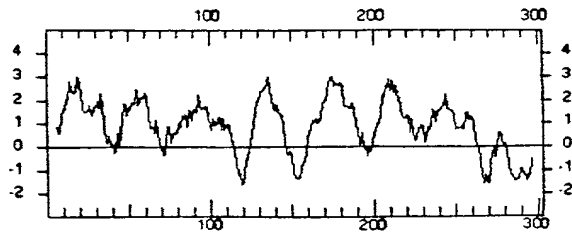


Figure 4

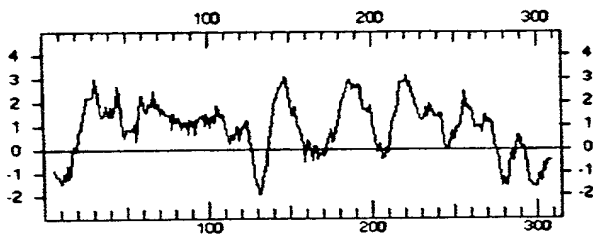




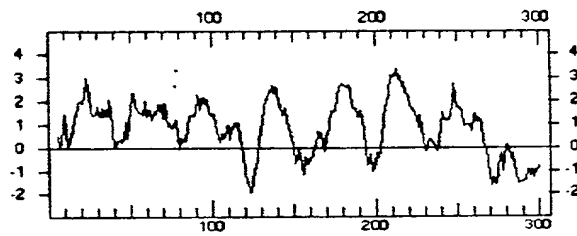
mrg 9



mrg 10



mrg 11



mrg 12

FIG. 5

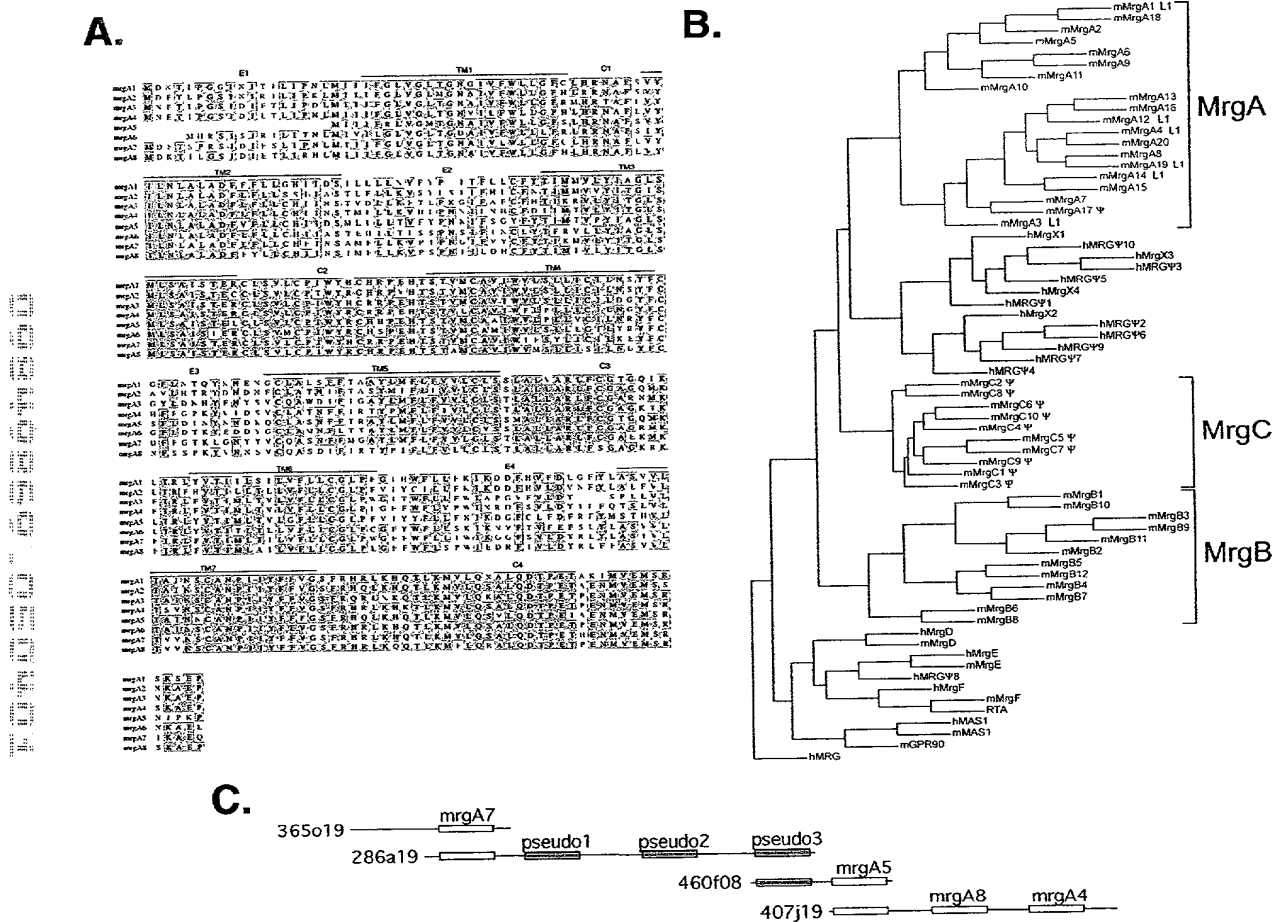


FIG 6

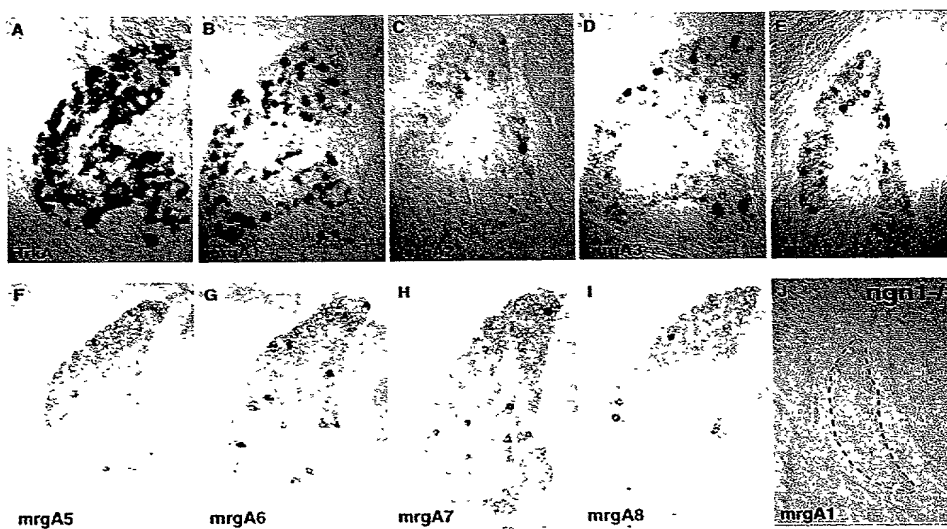


FIG 7

FIG 8

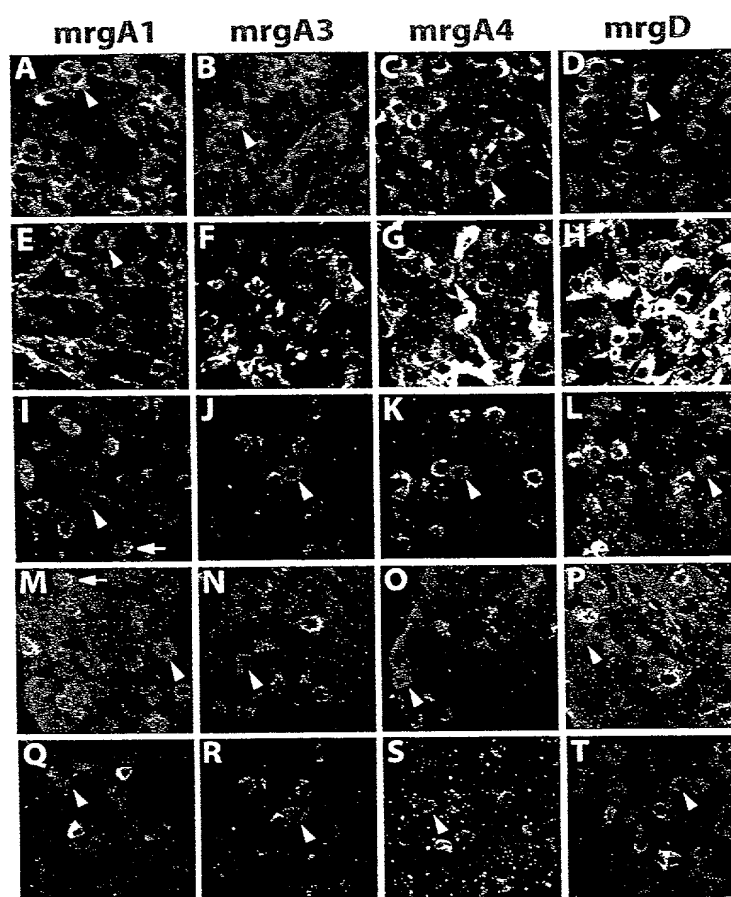
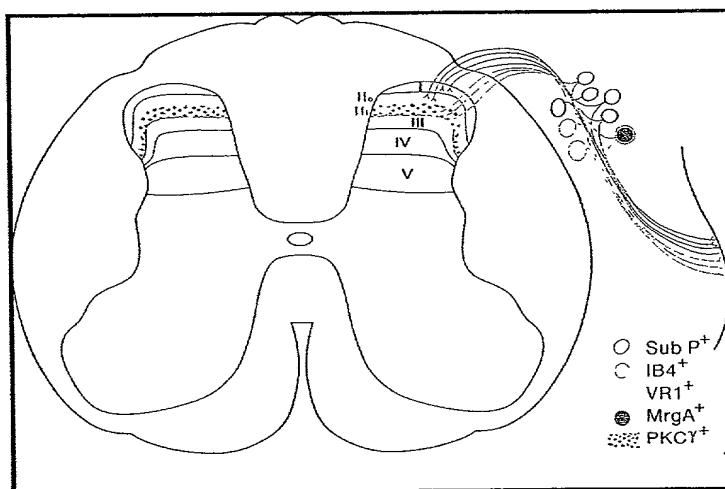


FIG 9



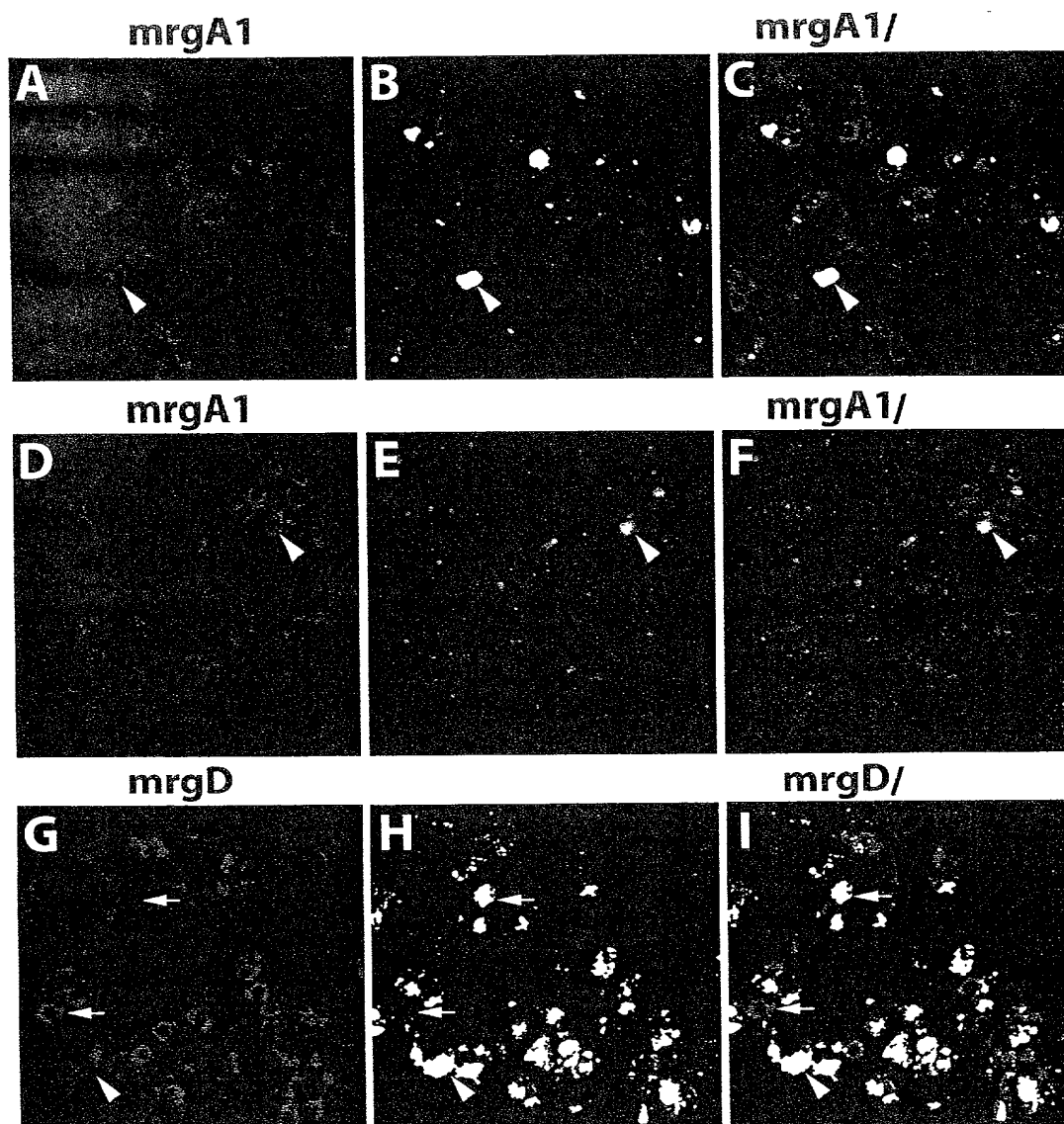


FIG 10

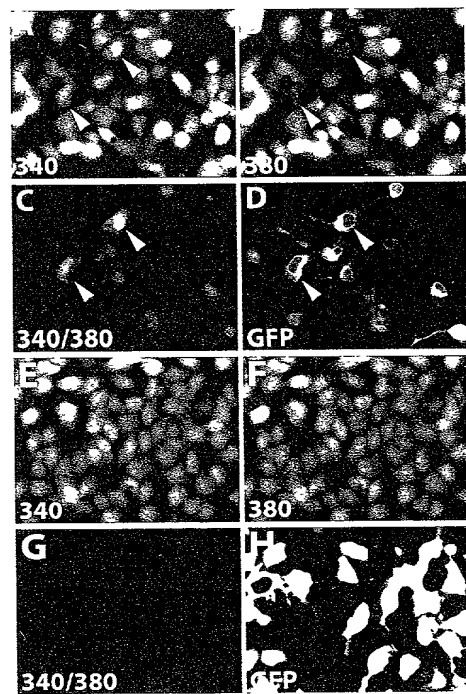


FIG 11

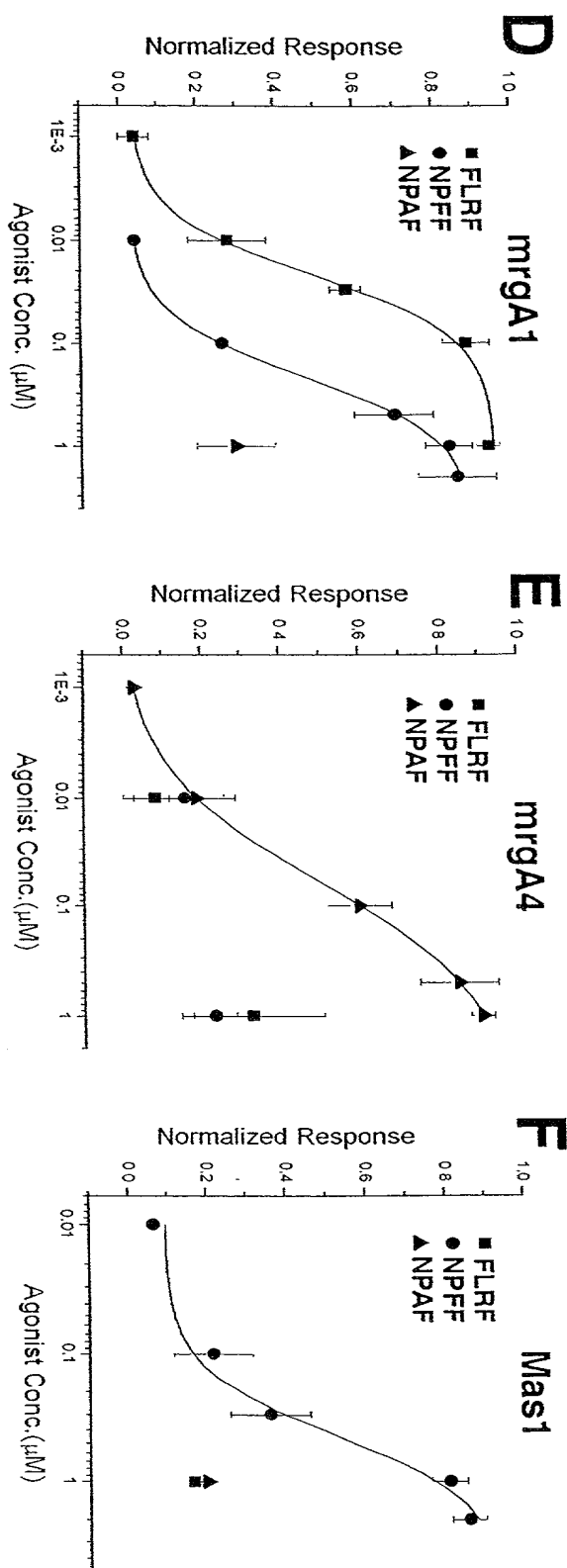
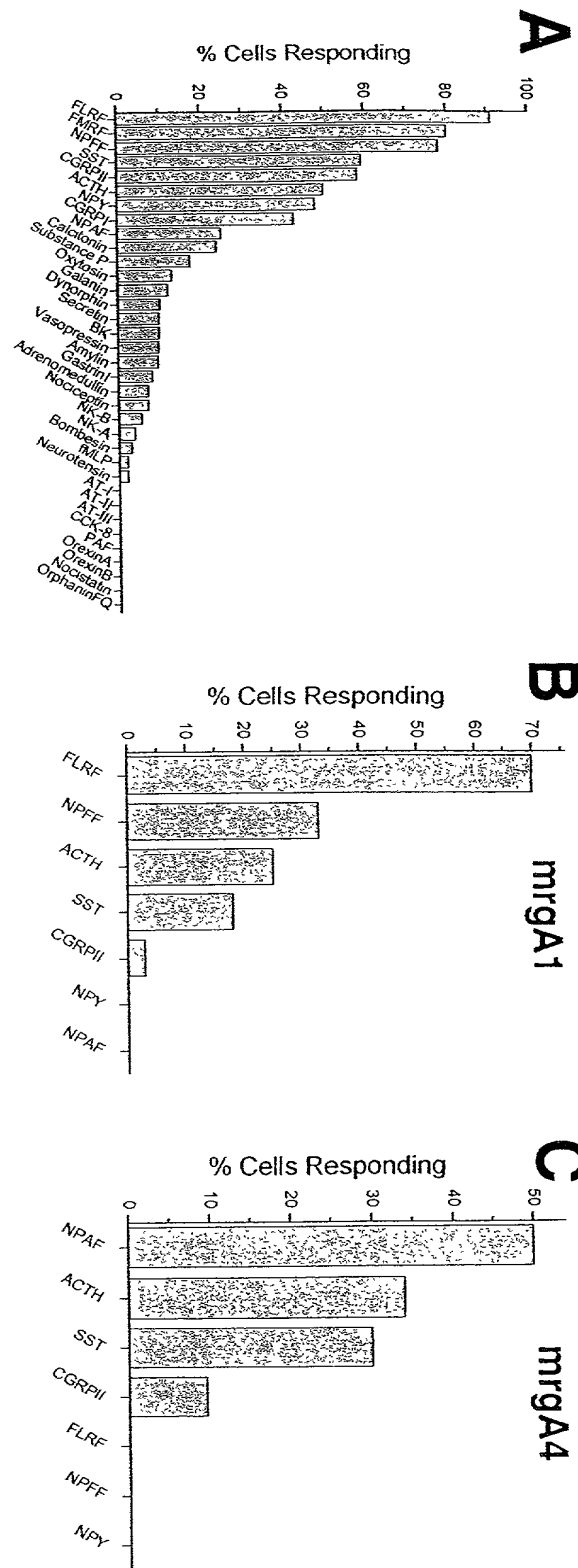
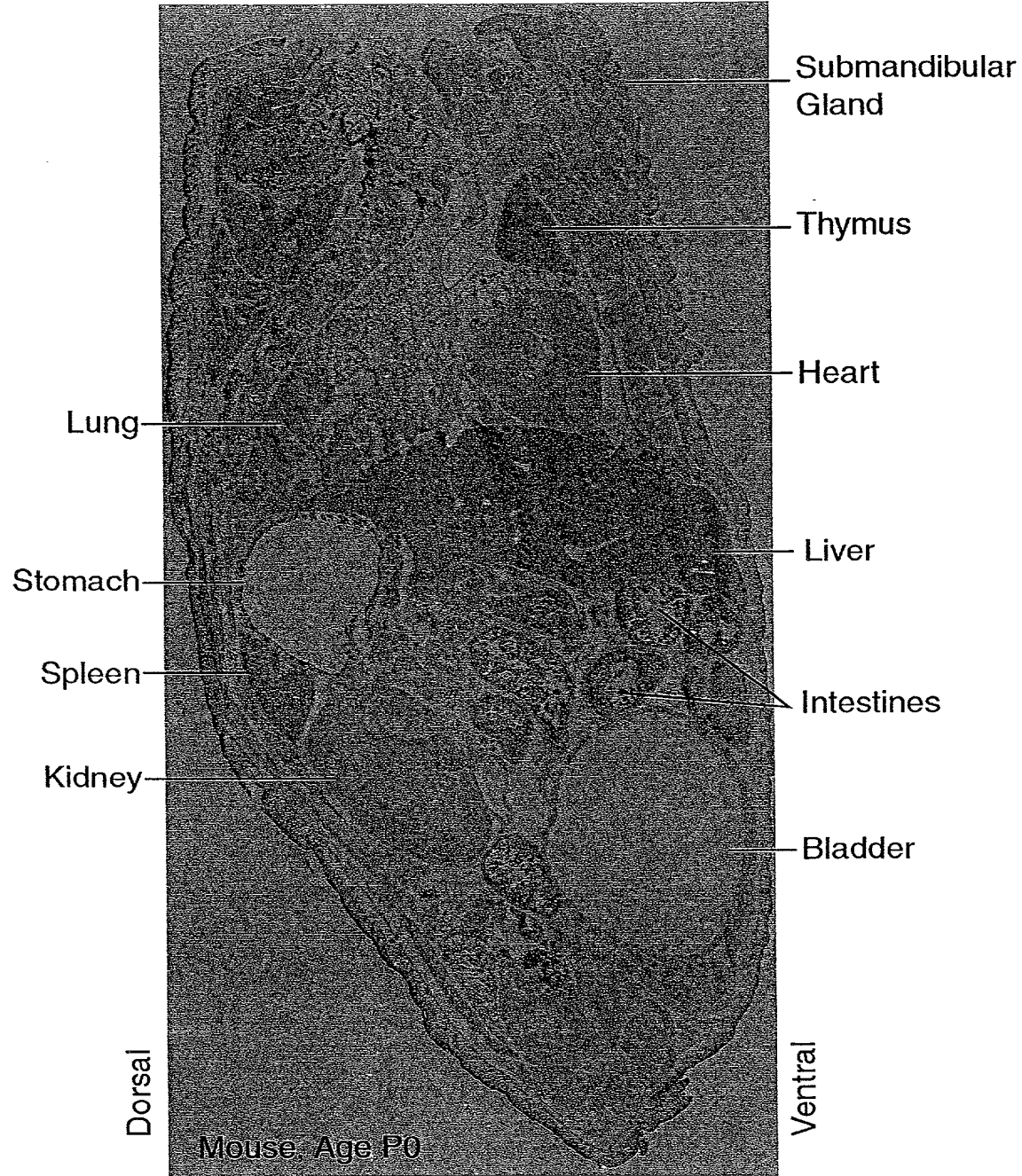


FIG 12

mMrgB1

Anterior/Head



Posterior/Tail

FIG 13

mMrgB1

Skin

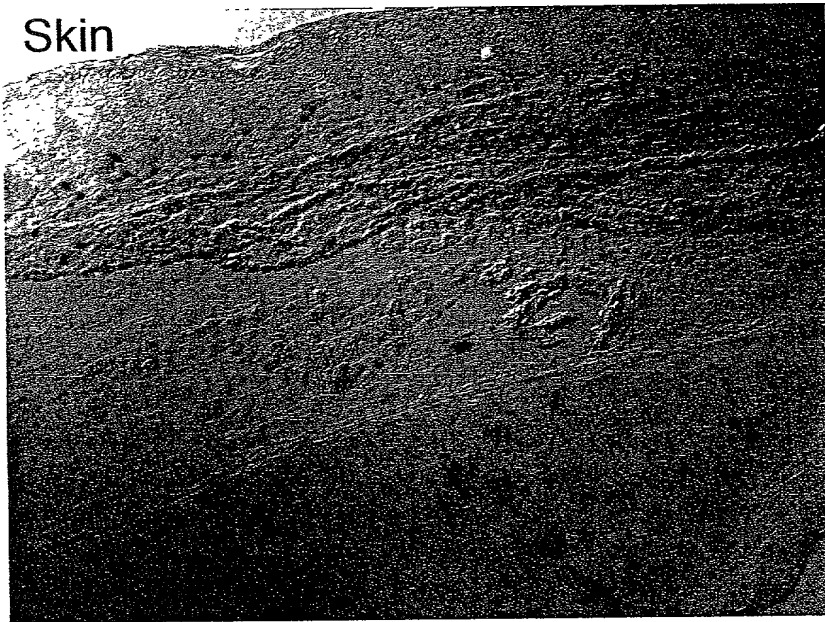


FIG 14

mMrgD in Adult DRG

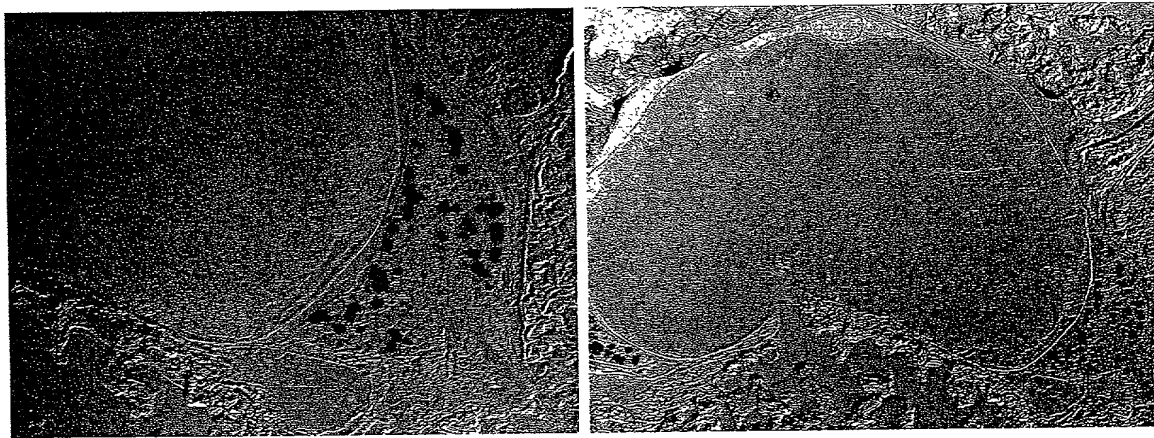


FIG 15